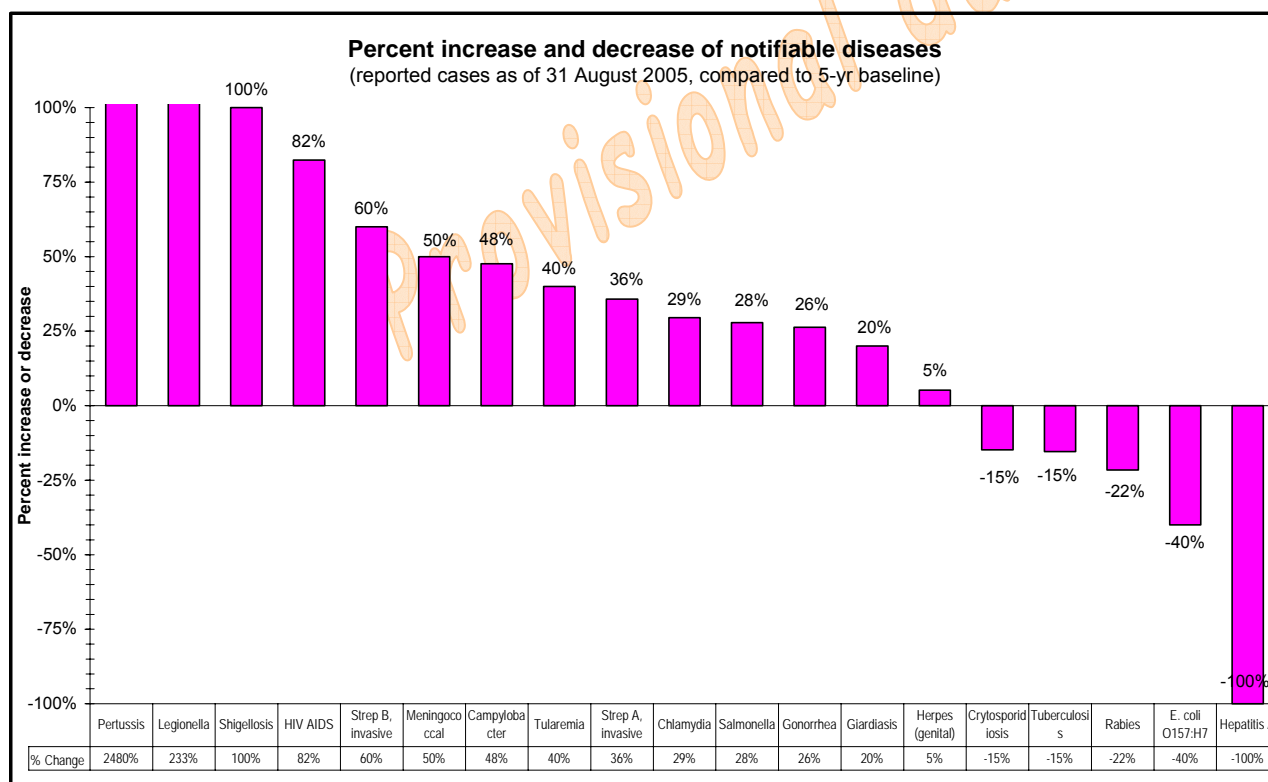


**SOUTH DAKOTA INFECTIOUS DISEASE SUMMARY: 1 January – 30 September 2005****These data are provisional.**

Year-to-date on 30 September 2005, increases  $\geq 50\%$  were observed over 5-year median for Pertussis (+2480%), Legionellosis (+233%), Shigellosis (+100%), HIV/AIDS (+82%), Invasive Strep B (60%) and Meningococcal disease (60%).

Disease/agent	Sept cases	Cases as of 9/30/05	Incidence as of 9/30/05	5-year median cases	Percent increase/decrease	Comments
Pertussis	27	129	16.7	5	2480%	Part of national epidemic.
Legionella	0	10	1.3	3	233%	All cases in West Region.
Shigellosis	1	26	3.4	13	100%	High incidence in West Region
HIV AIDS	2	31	4.0	17	82%	Highest incidence in Southeast.
Strep B, invasive	2	16	2.1	10	60%	High incidence in Southeast Region
Meningococcal	1	3	0.4	2	50%	1 case in September.
Campylobacter	14	214	27.8	145	48%	High incidence in Central Region
Tularemia	0	7	0.9	5	40%	Zoonotic transmission
Strep A, invasive	0	19	2.5	14	36%	
Chlamydia	235	2083	270.2	1609	29%	High incidence in Central and West
Salmonella	18	124	16.1	97	28%	High incidence in Southeast.
Gonorrhea	19	264	34.2	209	26%	High incidence in Central and West
Giardiasis	15	78	10.1	65	20%	Seasonal increase.
Herpes, genital/neonatal	38	262	34.0	249	5%	High incidence in West and Southeast
Cryptosporidiosis	7	23	3.0	27	-15%	High incidence in Northeast Region
Tuberculosis	2	11	1.4	13	-15%	Highest incidence in Central Region.
Rabies (as of 7-31-05)	nd	51	6.6	65	-22%	32+ skunks, 11+ cattle, 4+ horses, 2+ bats, 1+ dog, 1+ cat
E. coli O157:H7	5	21	2.7	35	-40%	High incidence in Northeast Region
Hepatitis A	0	0	0.0	2	-100%	No cases this year, 4 cases last year.
Syphilis	1	1	0.1	0	NA	1 case year to date in Southeast.
Hantavirus	0	2	0.3	NA	NA	1 case each in West and Central.
West Nile disease:	as of 9-30-05, 278 human cases including and 2 deaths.					



Incidence = cases reported per 100,000 population.

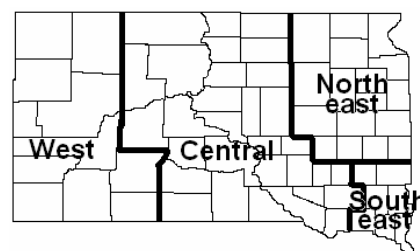
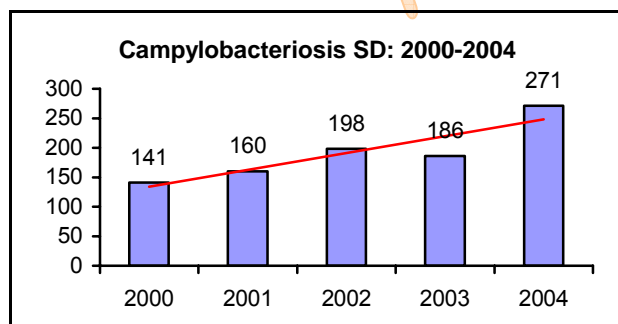
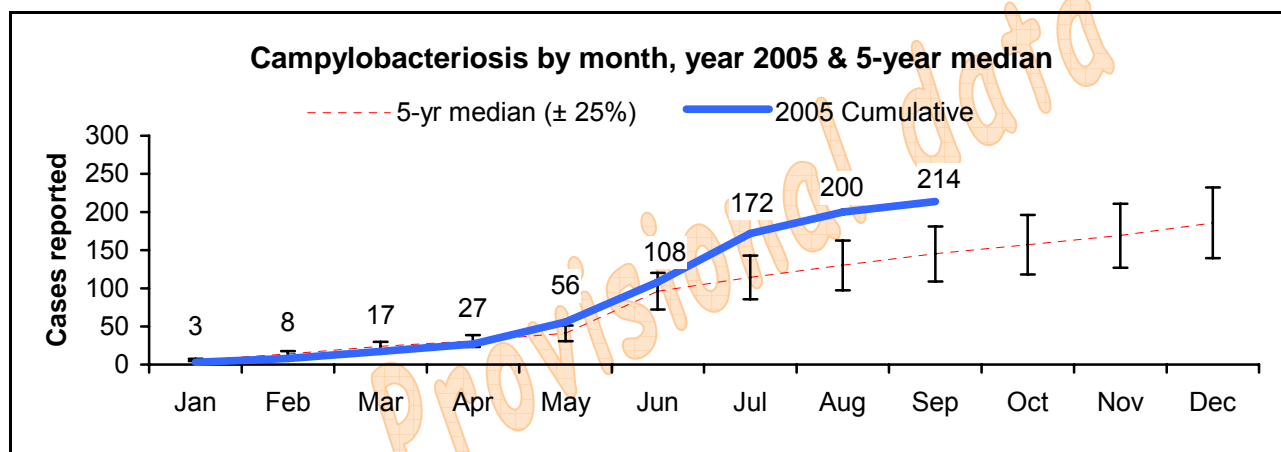
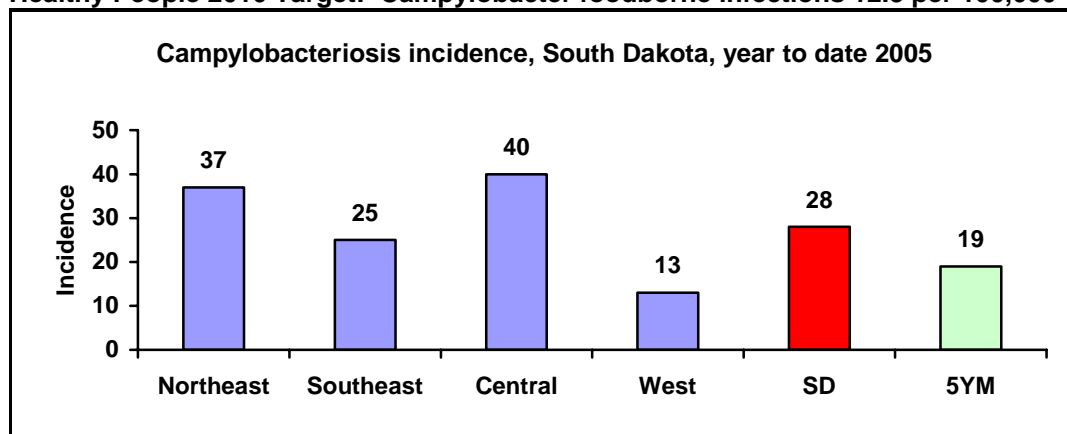
\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>CAMPYLOBACTERIOSIS</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	65	36.9	0	0	3	5	8	19	19	8	3	
SouthEast Region	248,114	61	24.6	1	4	1	2	6	11	17	13	6	
Central Region	158,182	63	39.8	1	1	4	2	10	18	20	4	3	
Western Region	188,226	25	13.3	1	0	1	1	5	4	8	3	2	
West River	233,472	40	17.1	1	0	3	1	8	8	13	3	3	
East River	537,411	174	32.4	2	5	6	9	21	44	51	25	11	
South Dakota YTD	770,883	214	27.8	3	5	9	10	29	52	64	28	14	

### Healthy People 2010 Target: Campylobacter foodborne infections 12.3 per 100,000



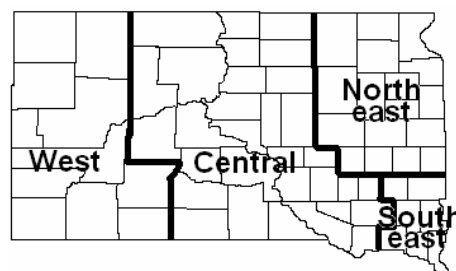
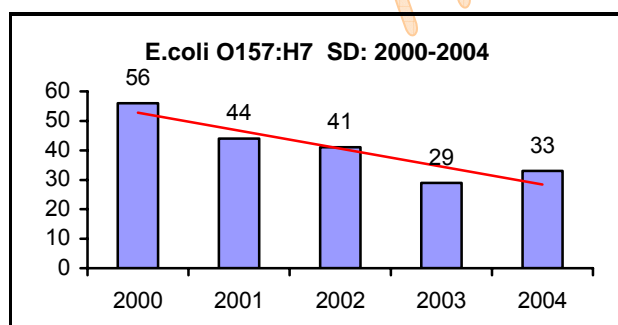
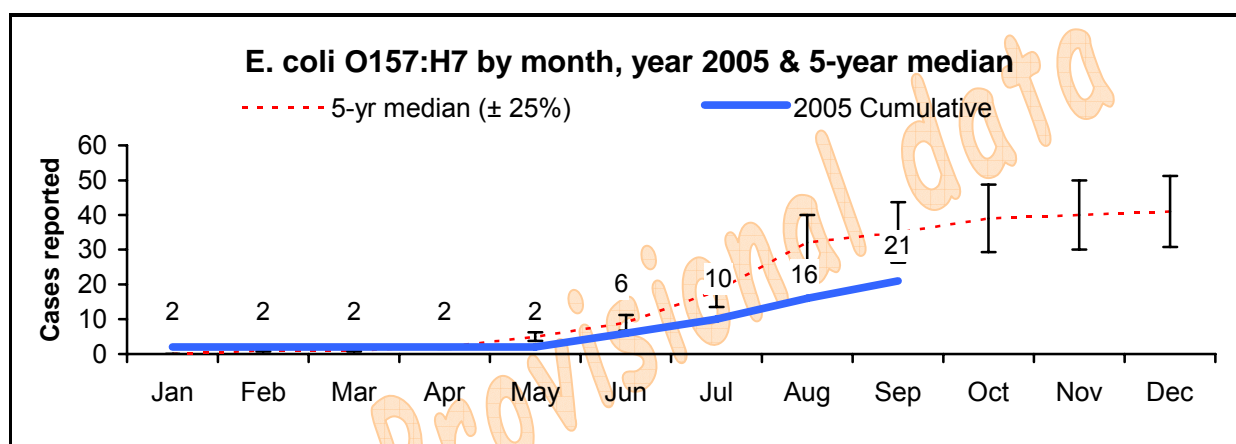
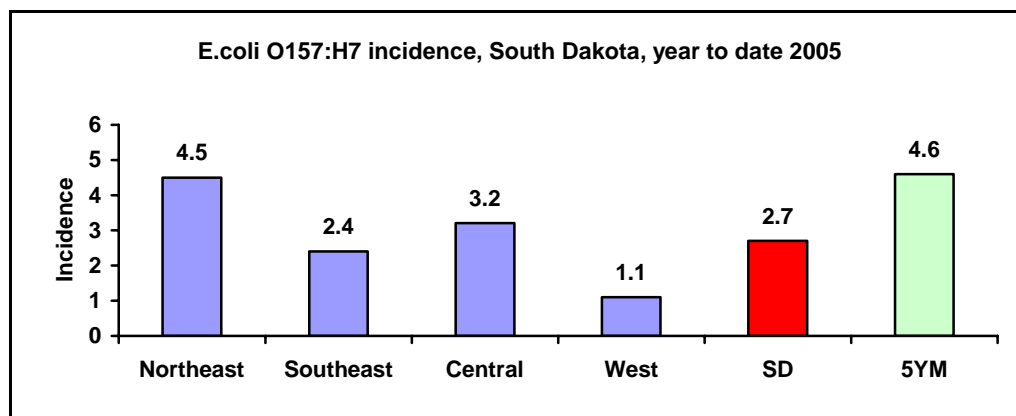
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>E. coli O157:H7</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	8	4.5	0	0	0	0	0	2	2	2	2	
SouthEast Region	248,114	6	2.4	2	0	0	0	0	1	0	2	1	
Central Region	158,182	5	3.2	0	0	0	0	0	1	1	1	2	
Western Region	188,226	2	1.1	0	0	0	0	0	0	1	1	0	
West River	233,472	3	1.3	0	0	0	0	0	0	1	1	1	
East River	537,411	18	3.3	2	0	0	0	0	4	3	5	4	
South Dakota YTD	770,883	21	2.7	2	0	0	0	0	4	4	6	5	



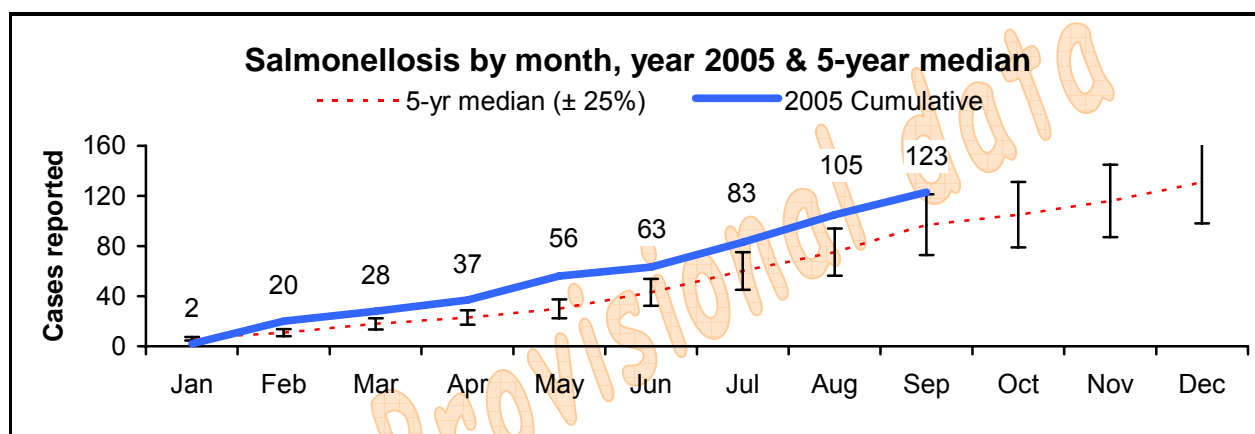
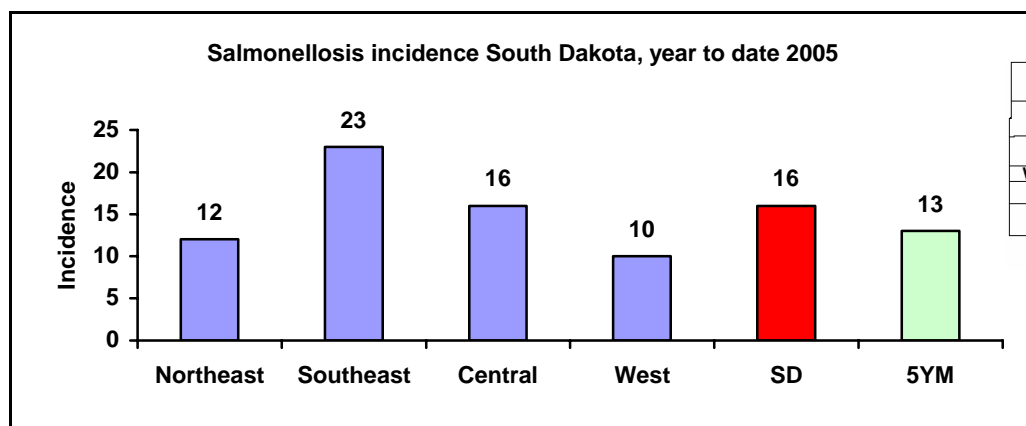
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

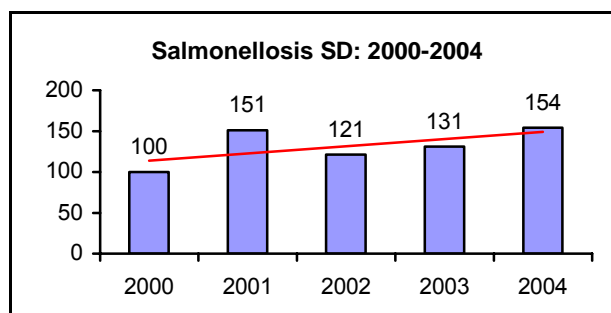
5YM= 5-year median

Population based on 2003 estimates

<b>SALMONELLOSIS</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	22	12.5	0	8	3	2	0	2	2	2	3	
SouthEast Region	248,114	58	23.4	1	6	1	3	9	3	14	12	9	
Central Region	158,182	25	15.8	1	2	2	1	5	2	4	6	2	
Western Region	188,226	18	9.6	0	2	2	3	5	0	0	2	4	
West River	233,472	24	10.3	1	2	3	4	6	0	0	4	4	
East River	537,411	99	18.4	1	16	5	5	13	7	20	18	14	
South Dakota YTD	770,883	123	16.0	2	18	8	9	19	7	20	22	18	



Salmonella serotype	TOTAL
S. derby	4
S. enteritidis	19
S. heidelberg	6
S. infantis	6
S. montevideo	4
S. muenchen	2
S. newport	7
S. oranienberg	4
S. paratyphi B	3
S. typhimurium	35
Other serotypes	34
<b>TOTAL</b>	<b>105</b>



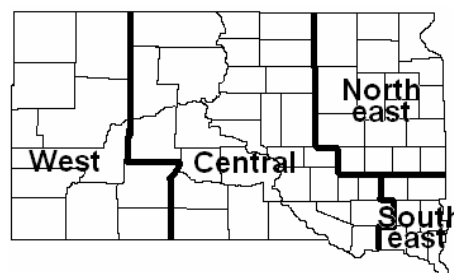
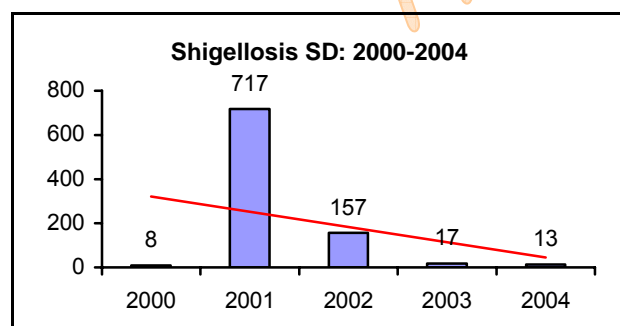
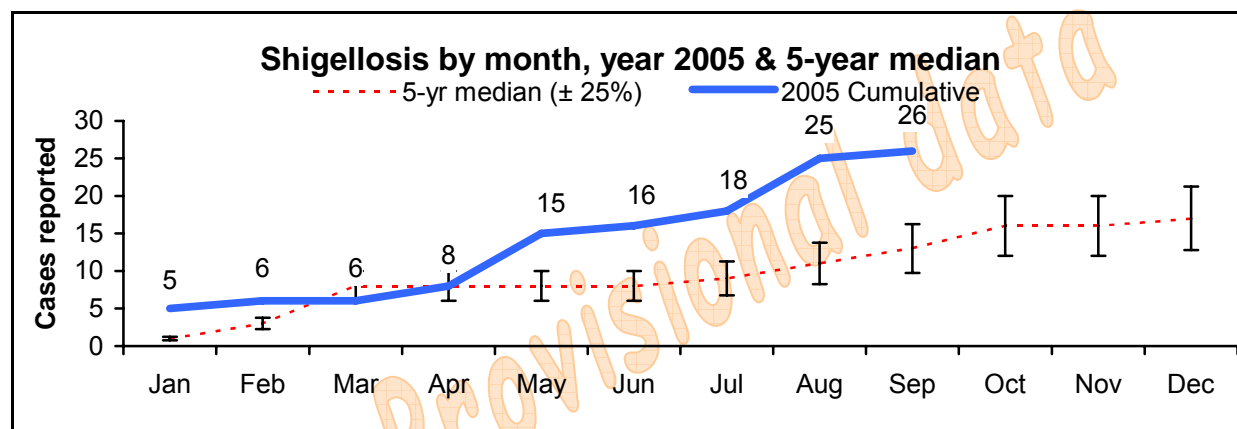
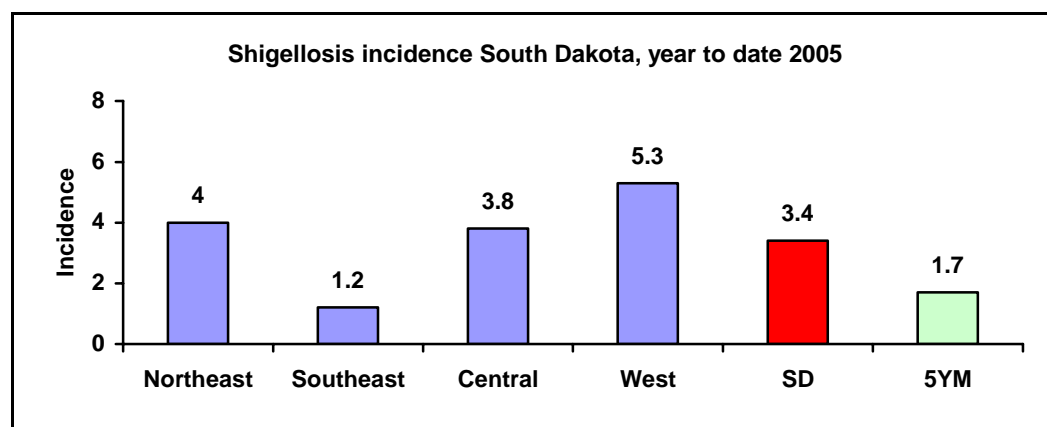
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>SHIGELLOSIS</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	7	4.0	0	0	0	0	7	0	0	0	0	
SouthEast Region	248,114	3	1.2	0	1	0	0	0	1	0	0	1	
Central Region	158,182	6	3.8	5	0	0	1	0	0	0	0	0	
Western Region	188,226	10	5.3	0	0	0	1	0	0	2	7	0	
West River	233,472	14	6.0	3	0	0	2	0	0	2	7	0	
East River	537,411	12	2.2	2	1	0	0	7	1	0	0	1	
South Dakota YTD	770,883	26	3.4	5	1	0	2	7	1	2	7	1	



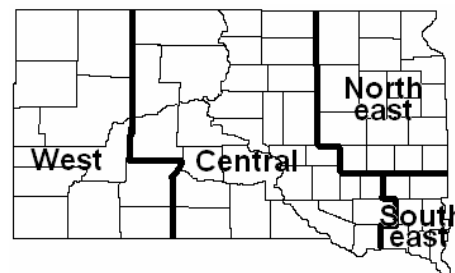
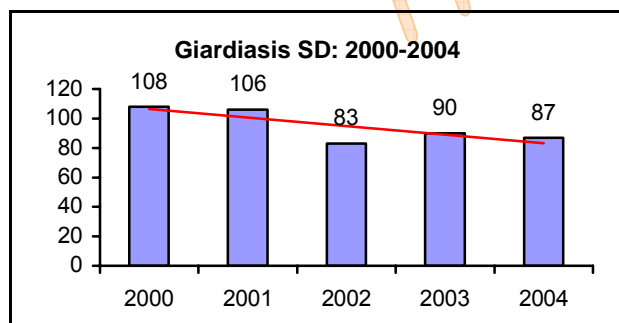
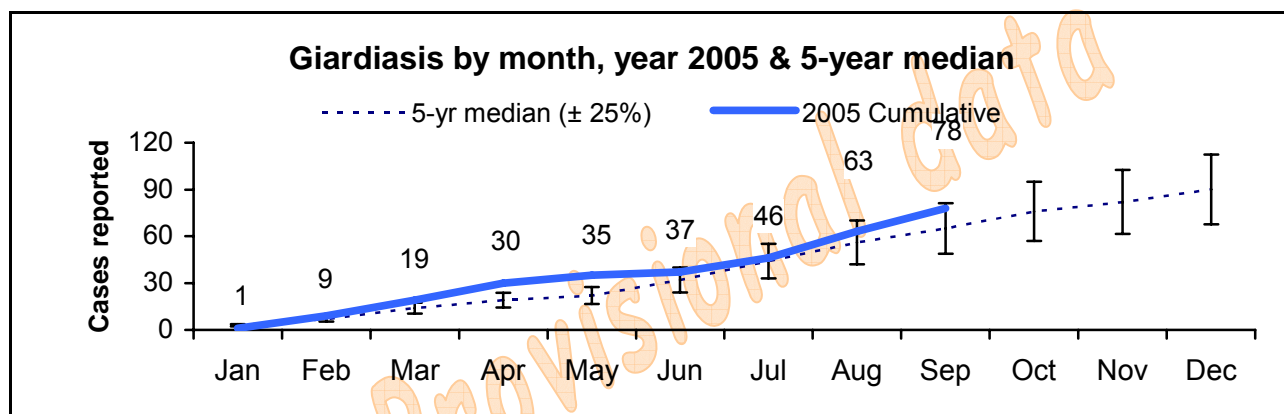
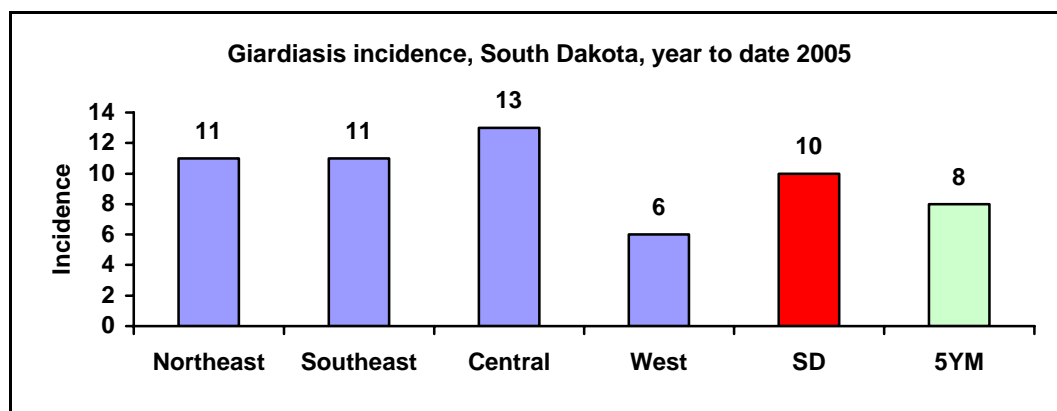
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>GIARDIASIS</b>													
<b>REGION</b>	<b>Pop</b>	<b># cases</b>	<b>Incidence</b>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	20	11.3	0	1	4	6	0	2	2	4	1	
SouthEast Region	248,114	27	10.9	0	4	1	4	3	0	5	5	5	
Central Region	158,182	20	12.6	1	3	2	1	1	0	1	5	6	
Western Region	188,226	11	5.8	0	0	3	0	1	0	1	3	3	
West River	233,472	16	6.9	0	3	4	0	1	0	1	3	4	
East River	537,411	62	11.5	1	5	6	11	4	2	8	14	11	
South Dakota YTD	770,883	78	10.1	1	8	10	11	5	2	9	17	15	



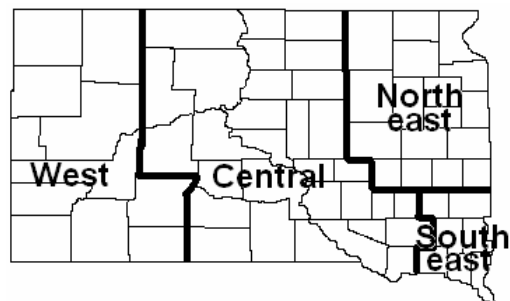
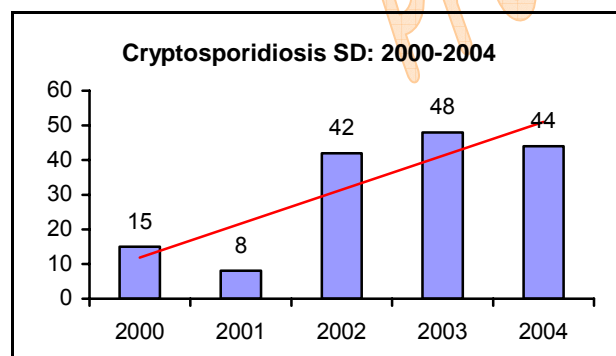
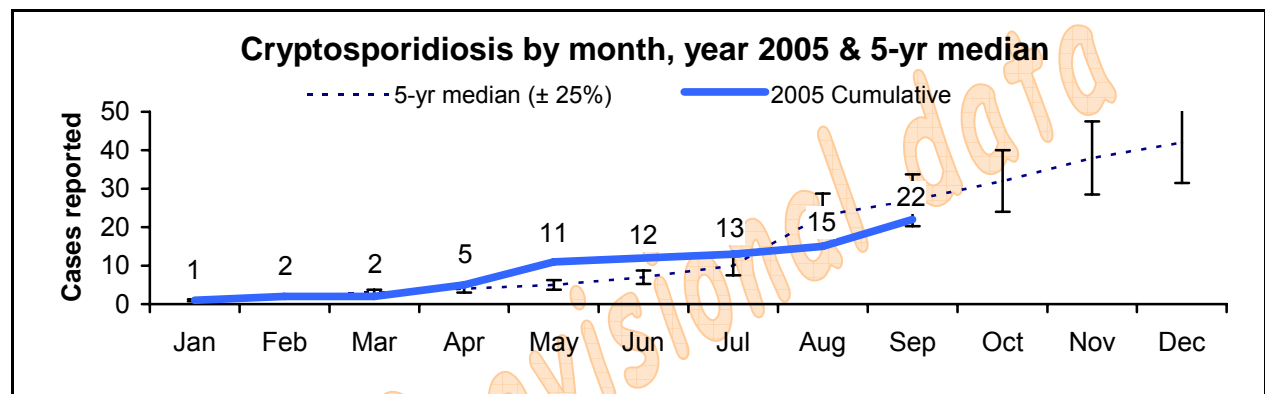
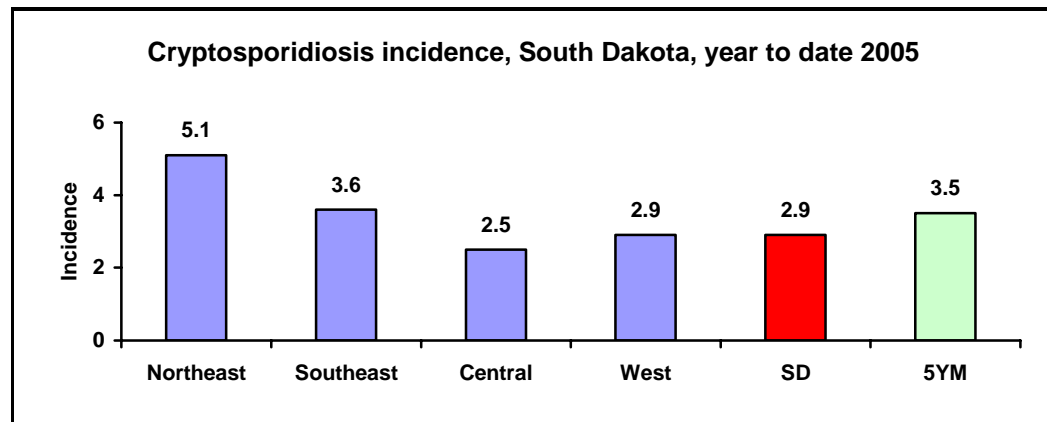
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

CRYPTOSPORIDIOSIS													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	9	5.1	0	1	0	2	2	1	1	0	2	
SouthEast Region	248,114	9	3.6	1	0	0	1	1	0	0	2	4	
Central Region	158,182	4	2.5	0	0	0	0	3	0	0	0	1	
Western Region	188,226	0	0.0	0	0	0	0	0	0	0	0	0	
West River	233,472	0	0.0	0	0	0	0	0	0	0	0	0	
East River	537,411	22	4.1	1	1	0	3	6	1	1	2	7	
South Dakota YTD	770,883	22	2.9	1	1	0	3	6	1	1	2	7	



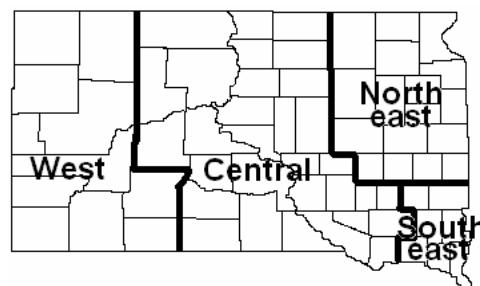
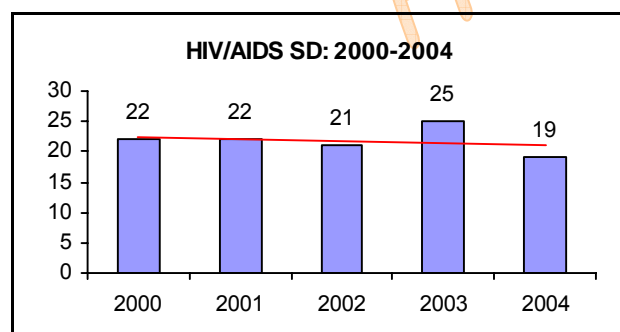
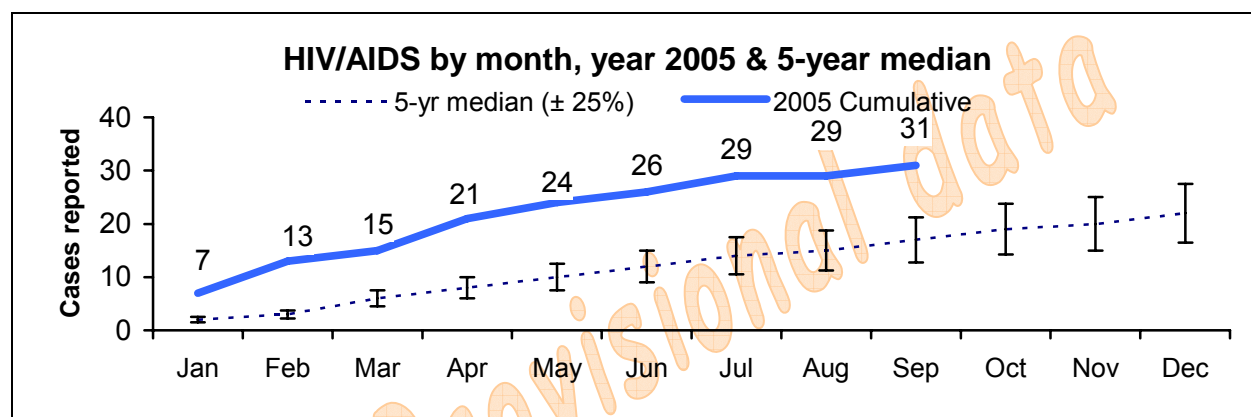
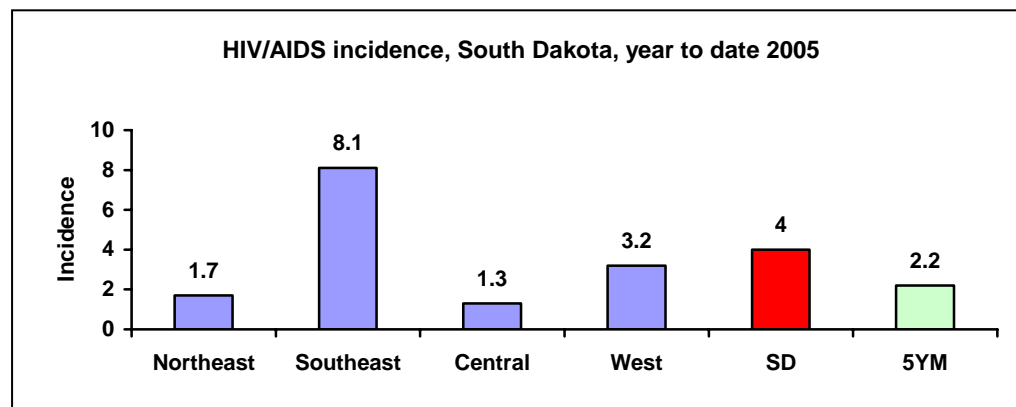
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>HIV / AIDS</b>												
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NorthEast Region	176,361	3	1.7	0	0	1	0	1	1	0	0	0
SouthEast Region	248,114	20	8.1	5	4	0	5	0	1	3	0	2
Central Region	158,182	2	1.3	1		1	0	0	0	0	0	0
Western Region	188,226	6	3.2	1	2	0	1	2	0	0	0	0
South Dakota YTD	770,883	31	4.0	7	6	2	6	3	2	3	0	2



Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

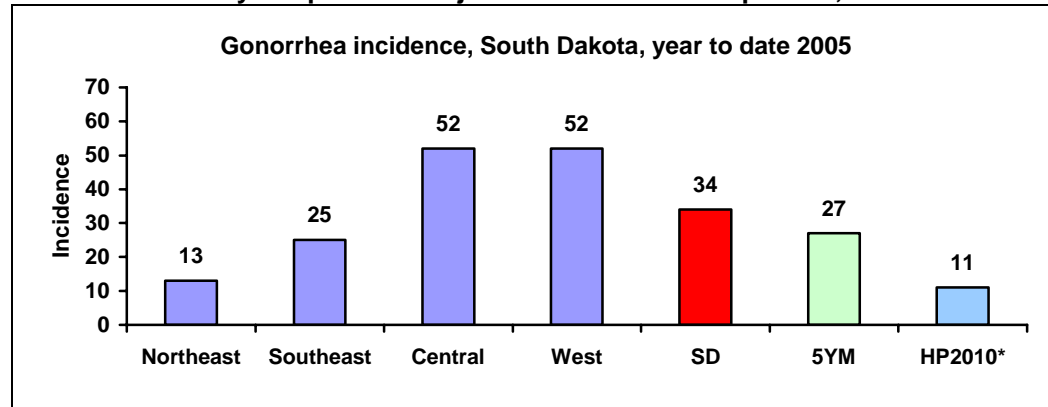
5YM= 5-year median

Population based on 2003 estimates

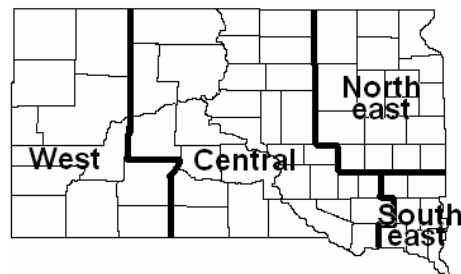
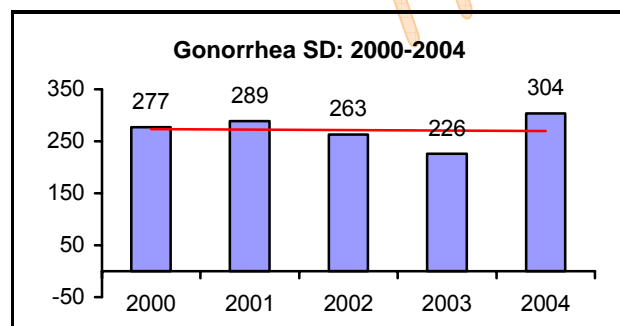
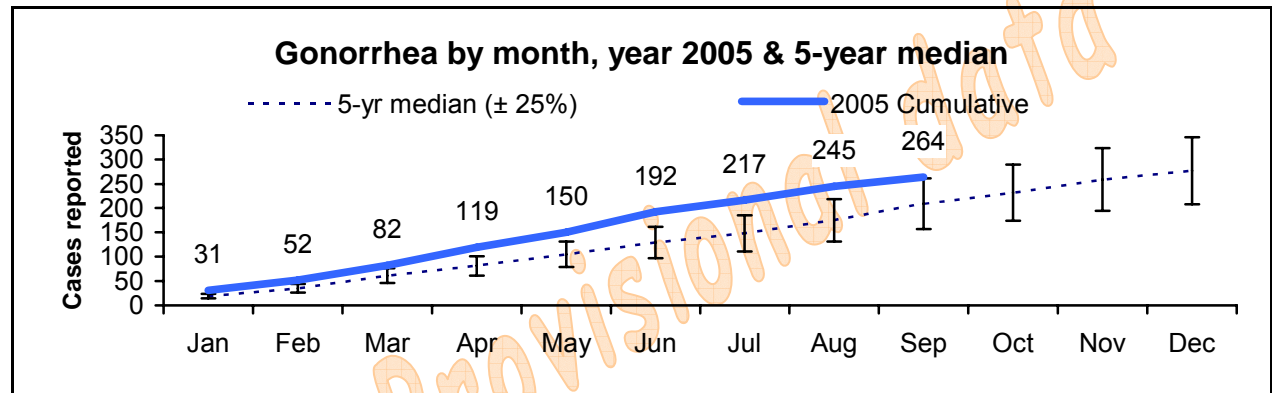


<b>GONORRHEA</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	23	13.0	3	1	3	2	3	4	2	2	3	
SouthEast Region	248,114	61	24.6	10	5	7	10	3	9	7	9	1	
Central Region	158,182	83	52.5	7	5	11	12	14	13	5	6	10	
Western Region	188,226	97	51.5	11	10	9	13	11	16	11	11	5	
West River	233,472	154	66.0	18	13	15	23	23	26	14	12	10	
East River	537,411	110	20.5	13	8	15	14	8	16	11	16	9	
South Dakota YTD	770,883	264	34.2	31	21	30	37	31	42	25	28	19	

### Gonorrhea Healthy People 2010 Objective: 19 new cases per 100,000



\*Healthy People 2010 Objective for full year.



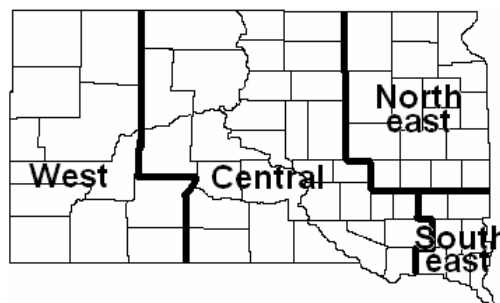
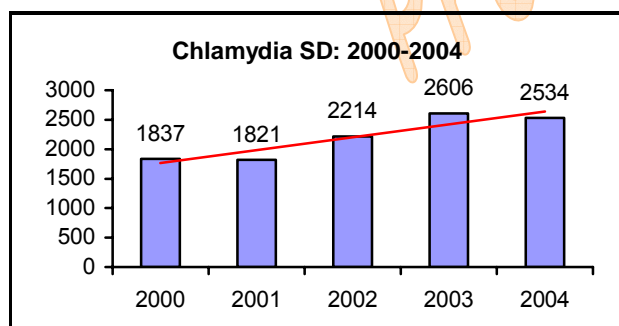
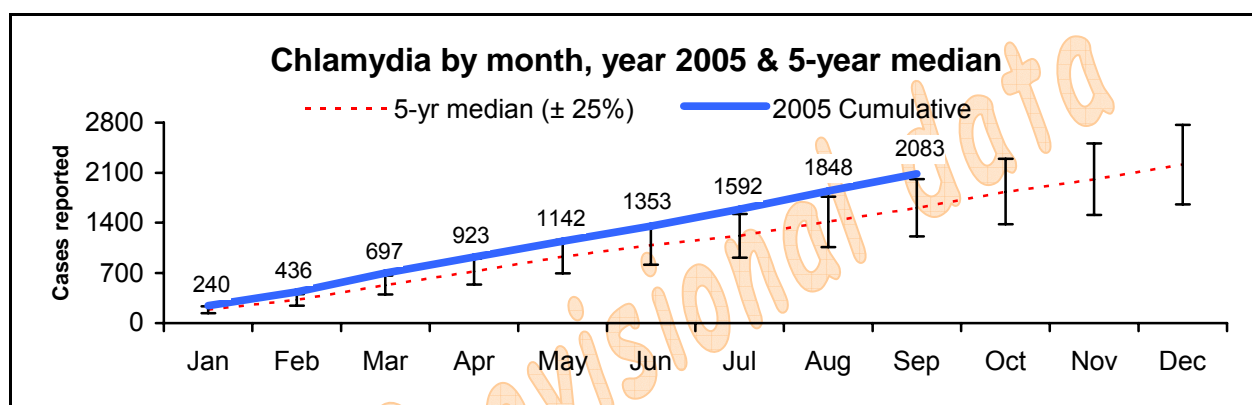
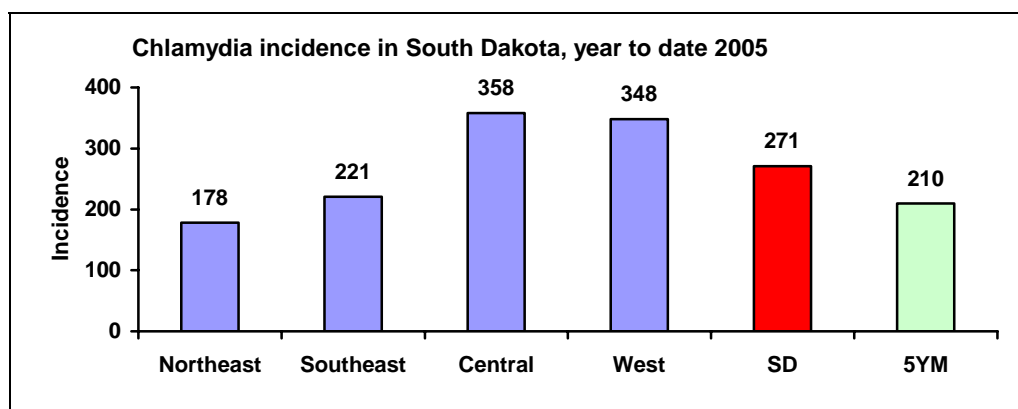
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>CHLAMYDIA TRACHOMATIS</b>													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	314	178.0	36	40	50	41	35	20	25	29	38	
SouthEast Region	248,114	549	221.3	59	51	56	55	60	66	66	72	64	
Central Region	158,182	566	357.8	57	42	65	74	61	57	76	71	63	
Western Region	188,226	654	347.5	88	63	90	56	63	68	72	84	70	
West River	233,472	1,033	442.5	124	100	135	108	98	103	122	132	111	
East River	537,411	1,050	195.4	116	96	126	118	121	108	117	124	124	
South Dakota YTD	770,883	2,083	270.2	240	196	261	226	219	211	239	256	235	



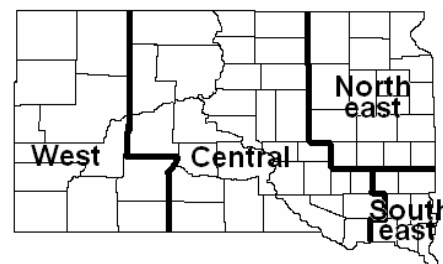
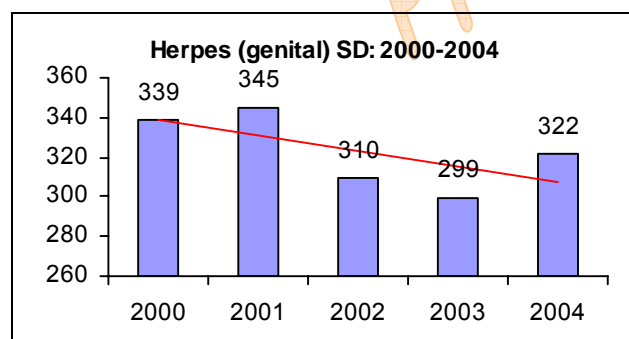
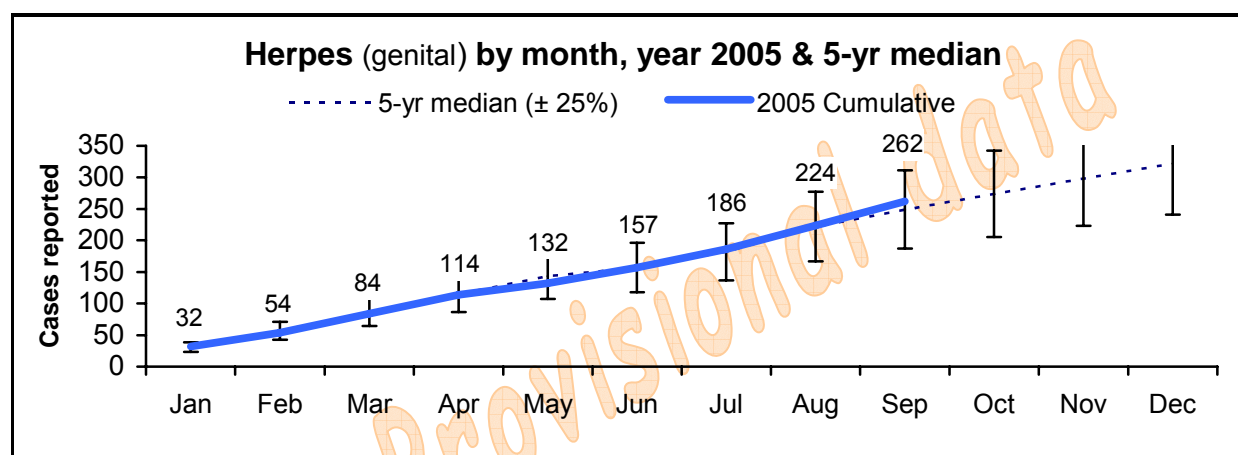
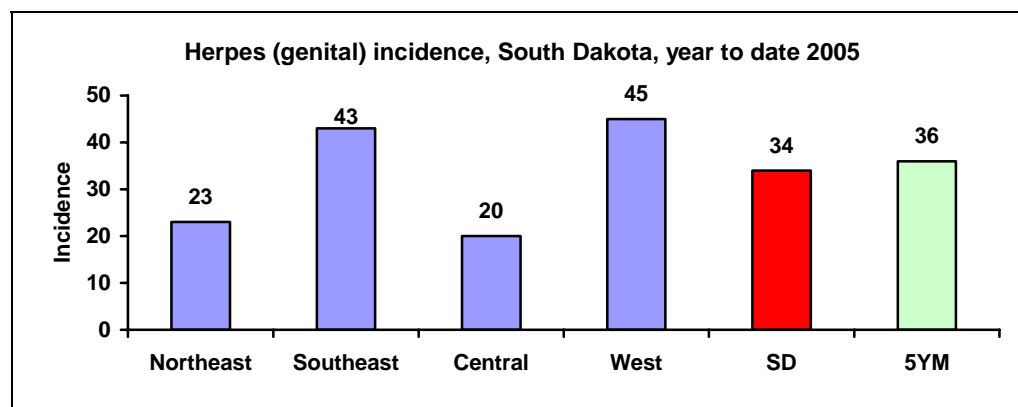
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

GENITAL HERPES													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	41	23.2	4	3	5	7	3	3	5	6	5	
SouthEast Region	248,114	106	42.7	12	12	7	12	6	10	13	15	19	
Central Region	158,182	31	19.6	4	0	4	6	3	3	3	4	4	
Western Region	188,226	84	44.6	12	7	14	5	6	9	8	13	10	
West River	233,472	91	39.0	12	7	15	6	7	10	8	15	11	
East River	537,411	171	31.8	20	15	15	24	11	15	21	23	27	
South Dakota YTD	770,883	262	34.0	32	22	30	30	18	25	29	38	38	



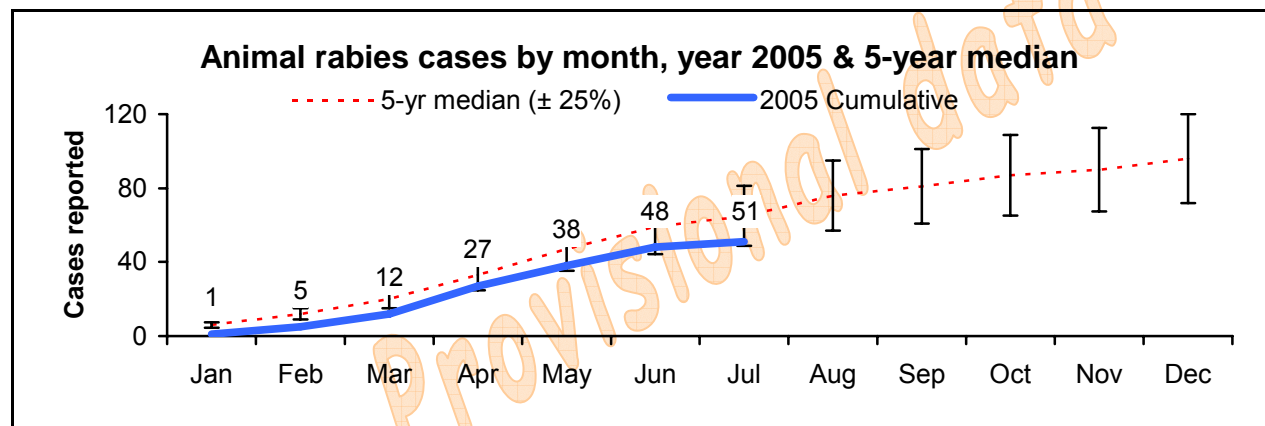
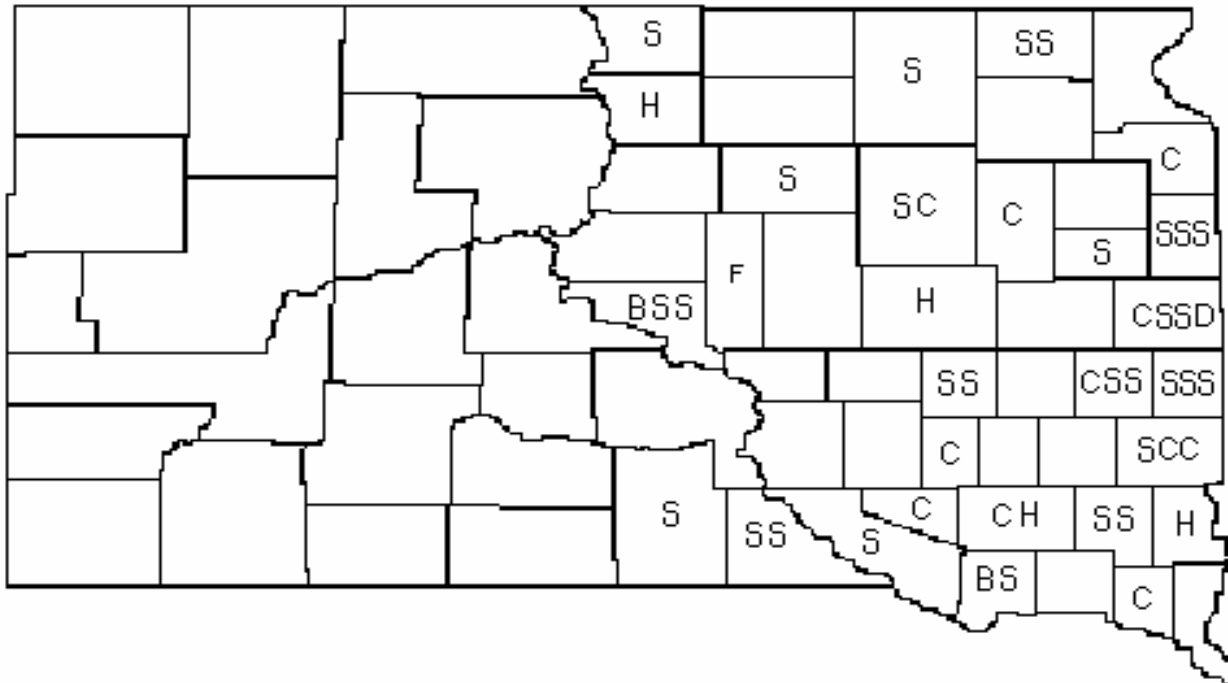
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

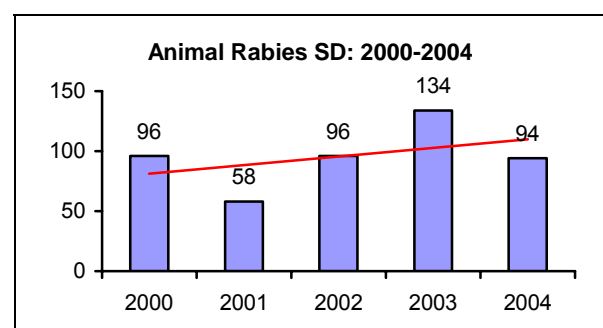
5YM= 5-year median

Population based on 2003 estimates

## Animal Rabies in South Dakota, 1 January – 31 July 2005.



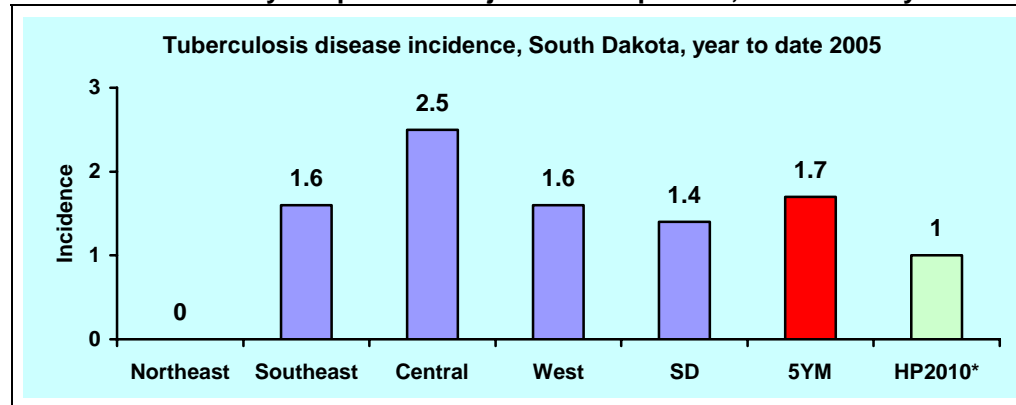
Animal	Number tested	Number Positive	% Positive
Bat (B)	43	2	5%
Cattle (C)	83	11	13%
Dog (D)	95	1	1%
Horse (H)	16	4	25%
Cat (F)	129	1	1%
Skunk (S)	41	32	78%
Raccoon (R)	20	0	-
Other*	26	0	-
<b>Total</b>	<b>453</b>	<b>51</b>	<b>13%</b>



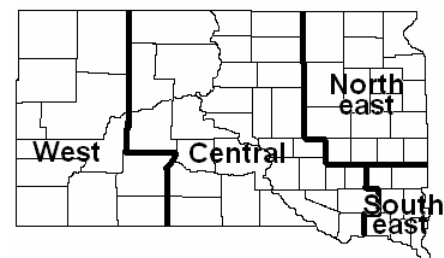
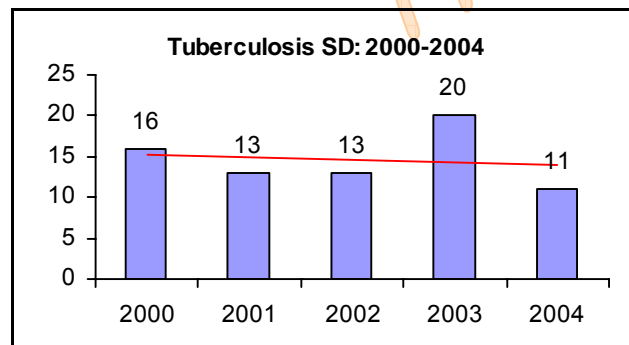
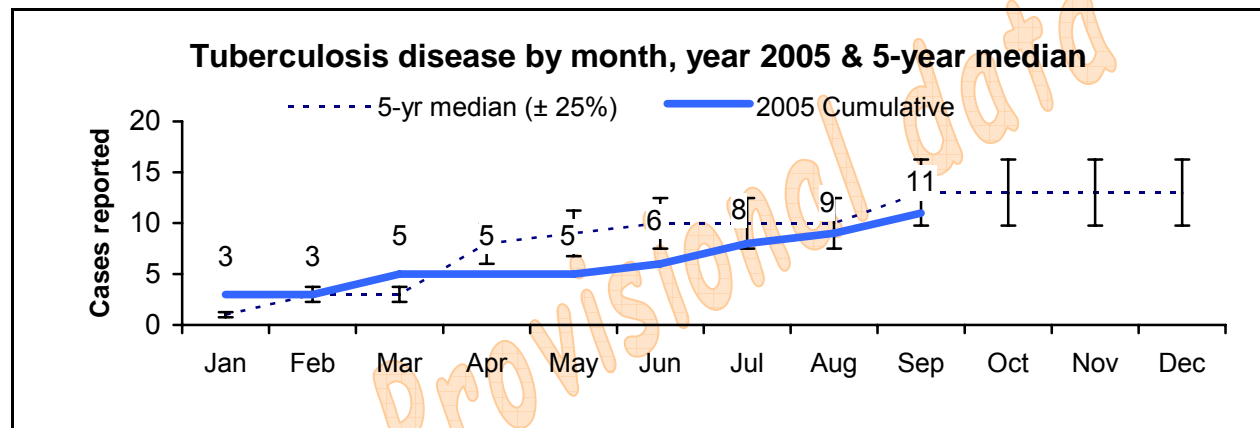
\*Other animals tested: badger, goat, coyote, fox, gopher, opossum, sheep, squirrel, tiger, and wolf .

TUBERCULOSIS DISEASE				#											
REGION	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
NorthEast Region	176,361	0	0.0	0	0	0	0	0	0	0	0	0			
SouthEast Region	248,114	4	1.6	2	0	1	0	0	0	1	0	0			
Central Region	158,182	4	2.5	1	0	0	0	0	1	1	0	1			
Western Region	188,226	3	1.6	0	0	1	0	0	0	0	1	1			
West River	233,472	6	2.6	1	0	1	0	0	0	1	1	2			
East River	537,411	5	0.9	2	0	1	0	0	1	1	0	0			
South Dakota YTD	770,883	11	1.4	3	0	2	0	0	1	2	1	2			

Tuberculosis Healthy People 2010 Objective: 1.0 per 100,000 for a full year.



\*Healthy People 2010 Objective for full year.



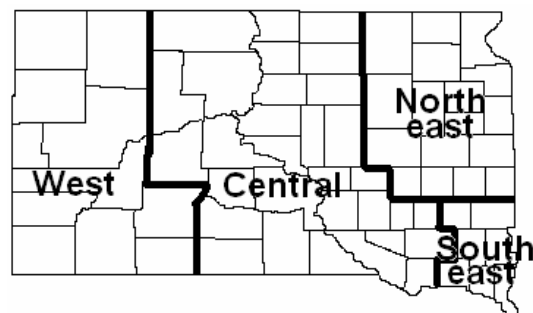
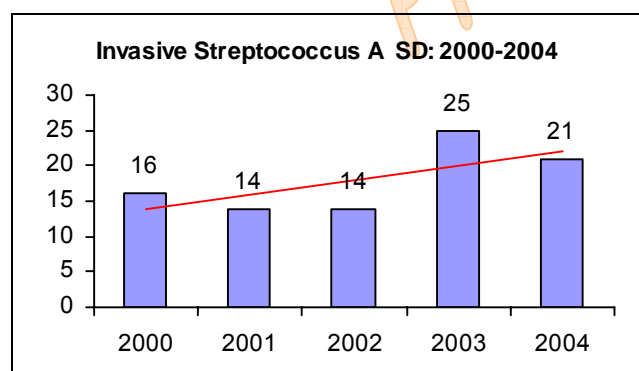
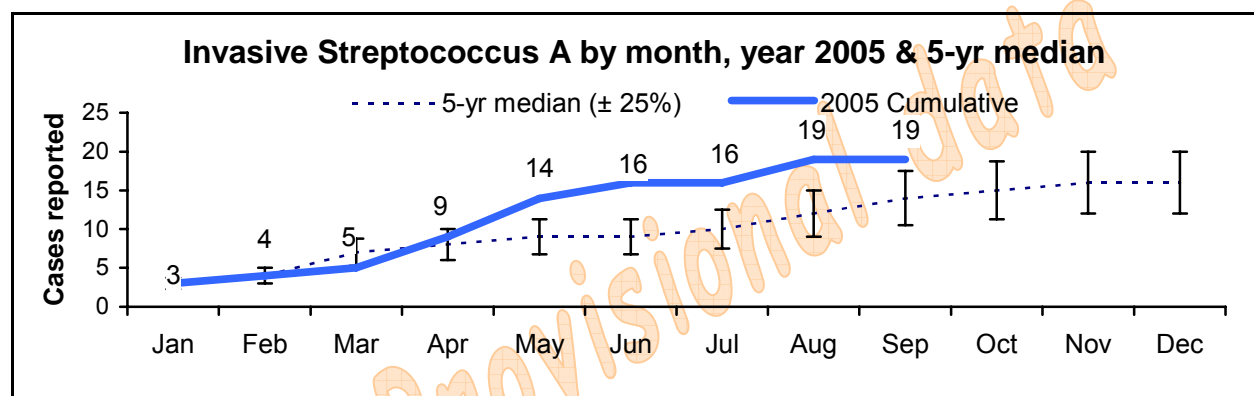
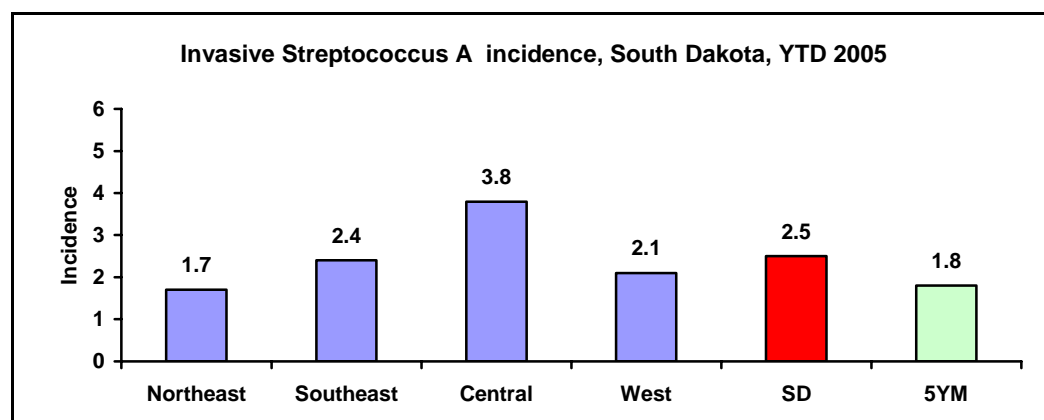
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

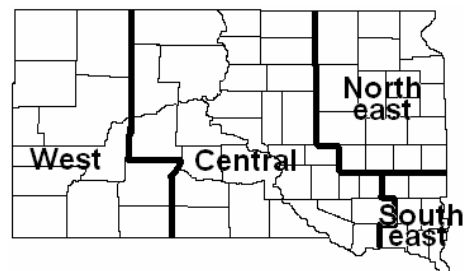
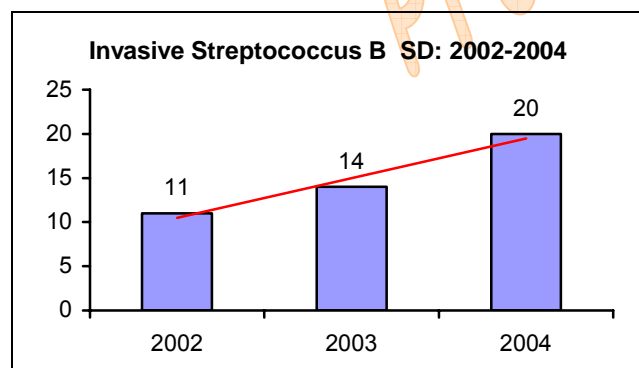
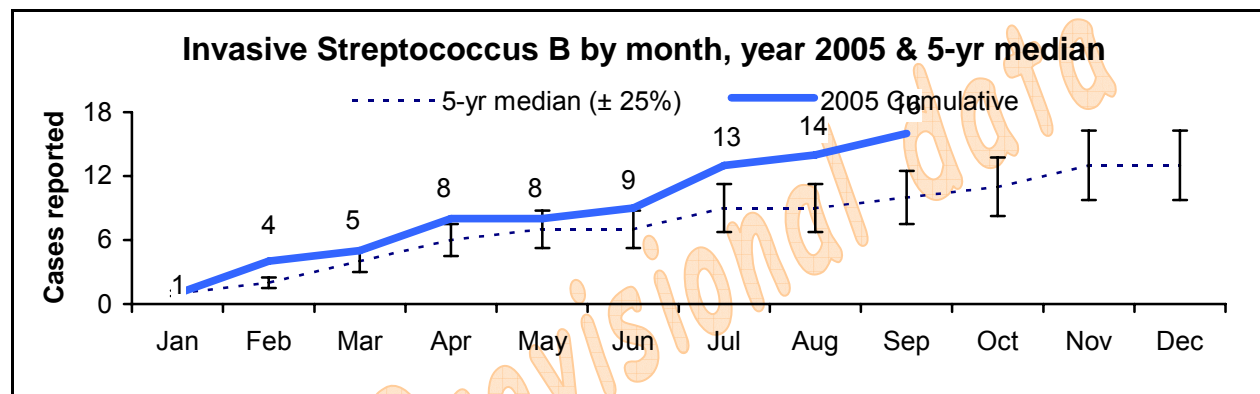
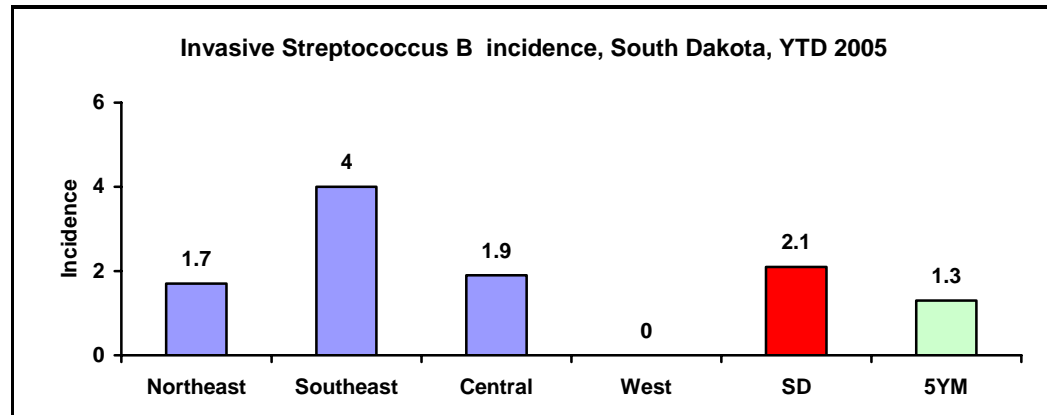
5YM= 5-year median

Population based on 2003 estimates

STREPTOCOCCUS GROUP A, INVASIVE													
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	3	1.7	0	1	0	0	1	1	0	0	0	
SouthEast Region	248,114	6	2.4	1	0	0	1	4	0	0	0	0	
Central Region	158,182	6	3.8	2	0	1	3	0	0	0	0	0	
Western Region	188,226	4	2.1	0	0	0	0	0	1	0	3	0	
West River	233,472	7	3.0	2	0	1	0	0	1	0	3	0	
East River	537,411	12	2.2	1	1	0	4	5	1	0	0	0	
South Dakota YTD	770,883	19	2.5	3	1	1	4	5	2	0	3	0	



<b>STREPTOCOCCUS GROUP B, INVASIVE</b>												
REGION	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NorthEast Region	176,361	3	1.7	0	0	0	0	0	1	2	0	0
SouthEast Region	248,114	10	4.0	1	3	0	3	0	0	2	0	1
Central Region	158,182	3	1.9	0	0	1	0	0	0	0	1	1
Western Region	188,226	0	0.0	0	0	0	0	0	0	0	0	0
West River	233,472	2	0.9	0	0	1	0	0	0	0	1	0
East River	537,411	14	2.6	1	3	0	3	0	1	4	0	2
South Dakota YTD	770,883	16	2.1	1	3	1	3	0	1	4	1	2



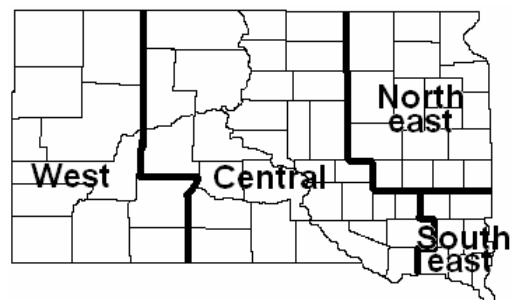
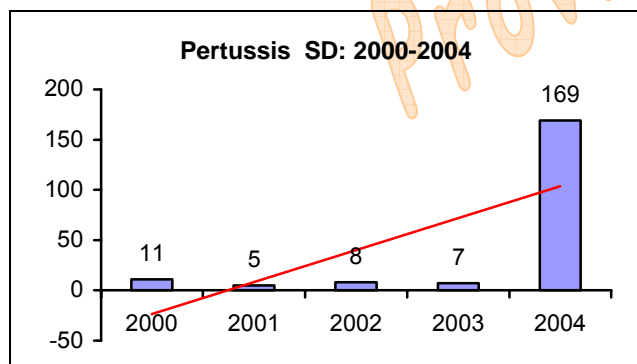
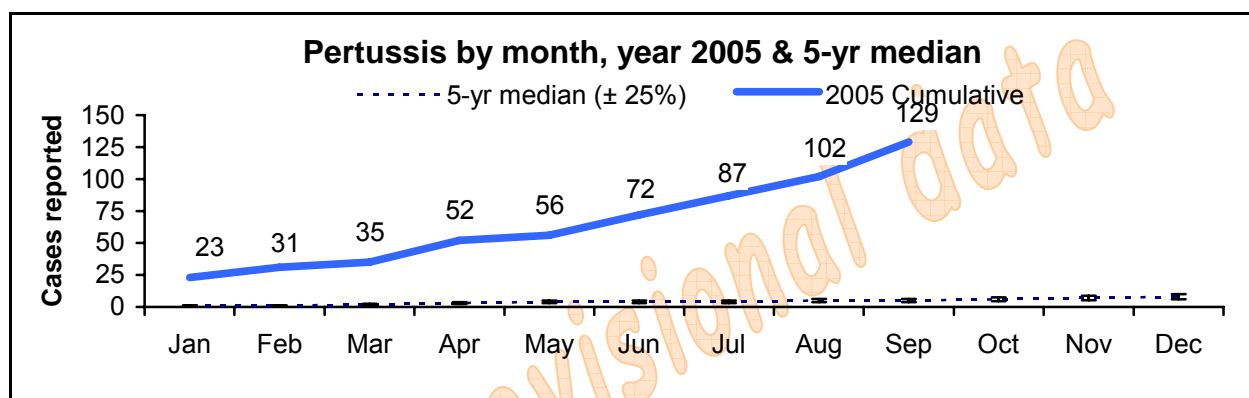
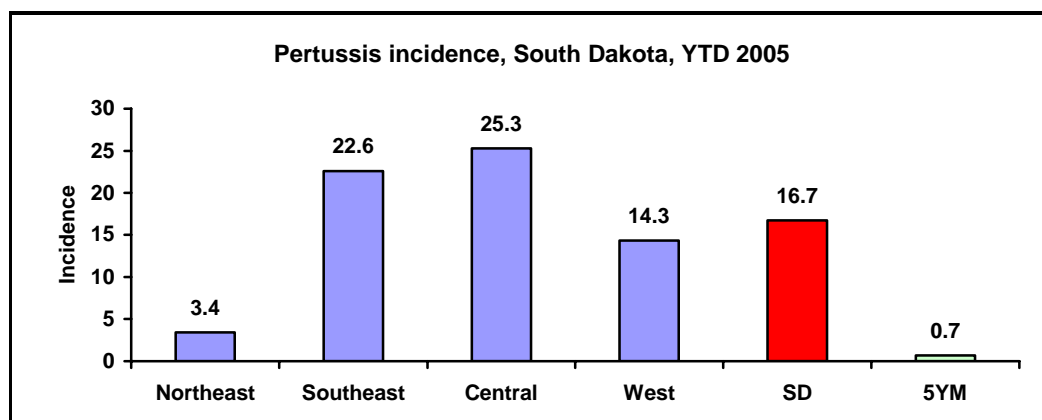
Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates

<b>PERTUSSIS</b>				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
REGION	Pop	# cases	Incidence									
NorthEast Region	176,361	6	3.4	2	0	0	0	3	0	1	0	0
SouthEast Region	248,114	56	22.6	4	0	1	4	4	13	12	2	16
Central Region	158,182	40	25.3	12	3	8	1	3	1	1	1	10
Western Region	188,226	27	14.3	9	7	3	0	1	4	1	1	1
West River	233,472	41	17.6	13	7	3	0	3	5	1	1	8
East River	537,411	88	16.4	14	3	9	5	8	13	14	3	19
South Dakota YTD	770,883	129	16.7	27	10	12	5	11	18	15	4	27



Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates



## Low Incidence or Newly Reportable Diseases in South Dakota, YTD2005

Botulism, wound; 1 case  
 Shiga-toxin producing *E. coli*, non-0157:H7, 3 cases  
 Hemolytic uremic syndrome, 3 cases  
 Syphilis, primary or secondary, 1 case  
 Legionellosis, 10 cases  
 Hantavirus pulmonary syndrome, 2 cases  
 Hepatitis B, acute, 3 cases  
 Meningococcal disease, 3 cases  
 Q Fever, 1 case  
 Rocky Mountain spotted fever, 5 cases  
*Streptococcus pneumoniae*, drug resistant, 3 cases  
 Toxic Shock Syndrome, *Staphylococcus aureus*, 1 case  
 Toxic Shock Syndrome, *Streptococcus pyogenes*, 1 case  
 Tularemia, 7 cases  
 Yersiniosis, 1 case

<b>MRSA (invasive)</b>		#											
REGION	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	7	4.0	1	1	2	1	1	0	0	1	0	
SouthEast Region	248,114	20	8.1	3	0	5	2	1	3	0	6	0	
Central Region	158,182	7	4.4	0	1	3	0	0	2	0	1	0	
Western Region	188,226	0	0.0	0	0	0	0	0	0	0	0	0	
West River	233,472	2	0.9	0	0	1	0	0	0	0	1	0	
East River	537,411	32	6.0	4	2	9	3	2	5	0	7	0	
South Dakota YTD	770,883	34	4.4	4	2	10	3	2	5	0	8	0	

\*Methicillin-resistant *Staphylococcus aureus* isolated from a normally sterile site such as blood or cerebral spinal fluid and joint, pleural, or pericardial fluid.

<b>CHICKEN POX (varicella)</b>		#											
REGION	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	13	7.4	4	3	0	5	0	0	0	1	0	
SouthEast Region	248,114	36	14.5	0	2	3	16	1	0	9	1	4	
Central Region	158,182	19	12.0	0	4	4	3	4	3	0	1	0	
Western Region	188,226	14	7.4	2	4	3	3	0	0	2	0	0	
West River	233,472	18	7.7	2	6	3	3	1	1	2	0	0	
East River	537,411	64	11.9	4	7	7	24	4	2	9	3	4	
South Dakota YTD	770,883	82	10.6	6	13	10	27	5	3	11	3	4	

<b>MENINGOCOCCAL DISEASE</b>		#											
REGION	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
NorthEast Region	176,361	0	0.0	0	0	0	0	0	0	0	0	0	
SouthEast Region	248,114	1	0.4	0	0	0	0	1	0	0	0	0	
Central Region	158,182	1	0.6	0	0	0	0	0	0	0	0	1	
Western Region	188,226	1	0.5	0	0	1	0	0	0	0	0	0	
West River	233,472	1	0.4	0	0	1	0	0	0	0	0	0	
East River	537,411	2	0.4	0	0	0	0	1	0	0	0	1	
South Dakota YTD	770,883	3	0.4	0	0	1	0	1	0	0	0	1	

Incidence = cases reported per 100,000 population.

\*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2003 estimates